Open Cooling Tower Datasheet

Informacion de trabajo

ASVN-011-26-MCT REV0
Centro Administrativo Municipal (CAM) de Cali
Cali - Colombia

Seleccionado por

Aservin Colombia
Cra 15 # 82 -19 of 402
Bogotá, 110111

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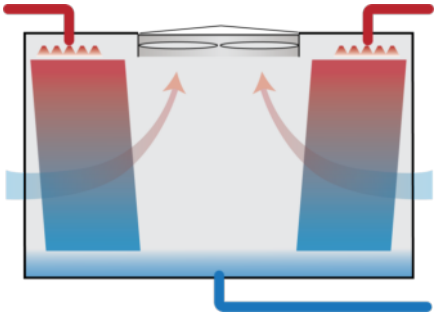
Marley NC8407RLS1

Marley NC Steel Crossflow Induced Draft Double-Flow Open Cooling Tower
Quiet Fan (L)
https://spxcooling.com/cooling-towers/marley-nc/

Selección

Modelo	NC8407RLS1
Número de Celdas	1
Capacidad	102.6%
Eficiencia acorde ASHRAE 90.1 (gpm/Hp)	81.7
Tipo de relleno	MX75

Esta selección satisface sus condiciones de diseño.



Condiciones de diseño

fluido	Agua
Flujo total (gpm)	1875
Temperatura de agua caliente (°F)	95
Temperatura de agua fría (°F)	85
Temperatura de bulbo húmedo (°F)	76
Carga térmica total (Btu/h)	9316600

Equipo Mecánico

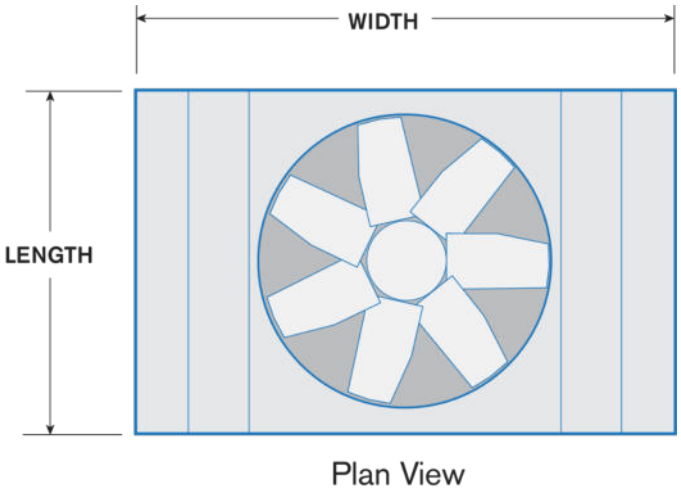
	Por celda	Total
Tipo de Ventilador	Silencioso	
Ventiladores	1	1
Velocidad de ventilador (rpm)	230	
Velocidad de motor de ventilador (rpm)	1200	
Placa del motor del ventilador (Hp)	25	25
Clasificación del motor del Ventilador (BHp)	25	25
Motor del ventilador requerido (BHp)*	23.15	23.15
Flujo de aire (cfm)	147930	147930

** Potencia requerida por el motor del ventilador operando a velocidad variable.*

Peso/Dimensiones (opciones NO incluidas, referirse al plano)

	Por celda	Total
Anchura (m)	6.401	6.401
Longitud (m)	3.627	3.627
Altura (m)	5.023	5.023
Peso de envío (lb)	10900	10900
Sección más pesada (lb)	10900	10900
Peso operativo máximo (lb)	24570	24570
Distancia a pared sólida (m)*	1.746	
Distancia a una pared con 50% de abertura (m)*	1.182	

** Distancia para la entrada de aire, sin afectar el rendimiento, se reduce si se eleva la torre*



Plan View

Otros datos

Elevación estática (m)	3.76
Pérdida de la cabeza de distribución (m)	NA
Evaporación, 50% humedad relativa (gpm)	18.4

Tamaño de calentador (Para prevenir que se congele la bandeja de agua fria durante paros)

kW/Celda	24	18	15	12	9	7.5
Ambiente (°F)	-20.9	-4.66	3.44	11.5	19.7	23.7

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MARLEY

Sound Datasheet

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Selección

Fabricante	Marley	Velocidad de ventilador (97.4%)	232 rpm
Producto	NC Steel	Velocidad de la punta del ventilador (97.4%)	36.99 m/s
Modelo	NC8407RLS2	Velocidad de motor de ventilador (97.4%)	974 rpm
Celdas	1	Capacidad del motor del ventilador por celda	24.81 Hp
Ventilador	3.048 m, 5 Aspas , Silencioso	Potencia del motor del ventilador por celda	22.97 BHp
Ventiladores por celda	1	Potencia total del motor del ventilador	22.97 BHp
Grupo de modelos	Quiet Fan (L)		

Sonido» Certirficado por CTI

1 - Datos de sonido de la celda para un ambiente sin obstrucciones.

Nivel de presión de sonido (SPL) expresado en dB (re: 20x10⁶ Pa)
Nivel de potencia acústica (PWL) expresado en dB (re: 1x10¹² vatios)

Distancia	Ubicación	Frec. central en bandas de octava(Hz) 63	125	250	500	1000	2000	4000	8000	En gen. dBA
1.52 m	Cara de entrada del aire SPL	74	78	74	74	68	64	57	49	75
1.52 m	Cara de la cubierta SPL	70	70	67	61	57	53	50	39	64
1.52 m	Descarga del ventilador SPL	77	78	77	76	72	69	67	57	78
	Torre PWL	99	98	98	97	93	89	85	78	99

Notas

- Los Niveles de sonido están certificados CTI, mediante el programa de certificación de sonido STD-204 del "Cooling Technology Institute"
- Los valores publicados han sido comprobados mediante una agencia autorizada por CTI, utilizando instrumentación de precisión con un grado Tipo 1 ANSI S1.4 y revisados exhaustivamente para garantizar su precisión por el Administrador de Certificación de Sonido de CTI.
- Data recopilada de acuerdo con el Cooling Technology Institute ATC-128 para equipos de rechazo de calor , pequeños, según la revisión de 2025. El nivel general de potencia acústica (dBA) se ha ajustado según la corrección de la directividad del Apéndice H de ATC-128.

Otros recursos

Para obtener información adicional sobre temas relacionados con el sonido, consulte:

Impactos de potencia de sonido según la revision del código CTI
https://spxcooling.com/library/sound-power-impacts-per-cti-code-revision/
Comprender y Evaluar los niveles de sonido de las torres de enfriamiento entre los fabricantes
https://spxcooling.com/library/understanding-and-evaluating-cooling-tower-sound-levels-among-manufacturers/

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No.:

Date: 16-DEC-2015

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer	:	
Product line	:	W22 Cooling Tower Motors: NEMA Premium - TEFC

Frame	:	324T
Output	:	25 HP
Frequency	:	60 Hz
Poles	:	6
Full load speed	:	1180
Slip	:	1.67 %
Voltage	:	208-230/460 V
Rated current	:	67.2-60.8/30.4 A
Locked rotor current	:	377/188 A
Locked rotor current (Il/In)	:	6.2
No-load current	:	28.0/14.0 A
Full load torque	:	110 lb.ft
Locked rotor torque	:	210 %
Breakdown torque	:	260 %
Design	:	B
Insulation class	:	F
Temperature rise	:	80 K
Locked rotor time	:	26 s (hot)
Service factor	:	1.25
Duty cycle	:	S1
Ambient temperature	:	-20°C - +40°C
Altitude	:	1000
Degree of Protection	:	IP55
Approximate weight	:	560 lb
Moment of inertia	:	11.493 sq.ft.lb
Noise level	:	62 dB(A)

	D.E.	N.D.E.
Bearings	6312 2RS-C3	6212 2RS-C3
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.82	93.0
75%	0.77	93.0
50%	0.65	91.7

Notes:

Typical Motor Data Sheet

Performed by	Checked

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Informacion de trabajo

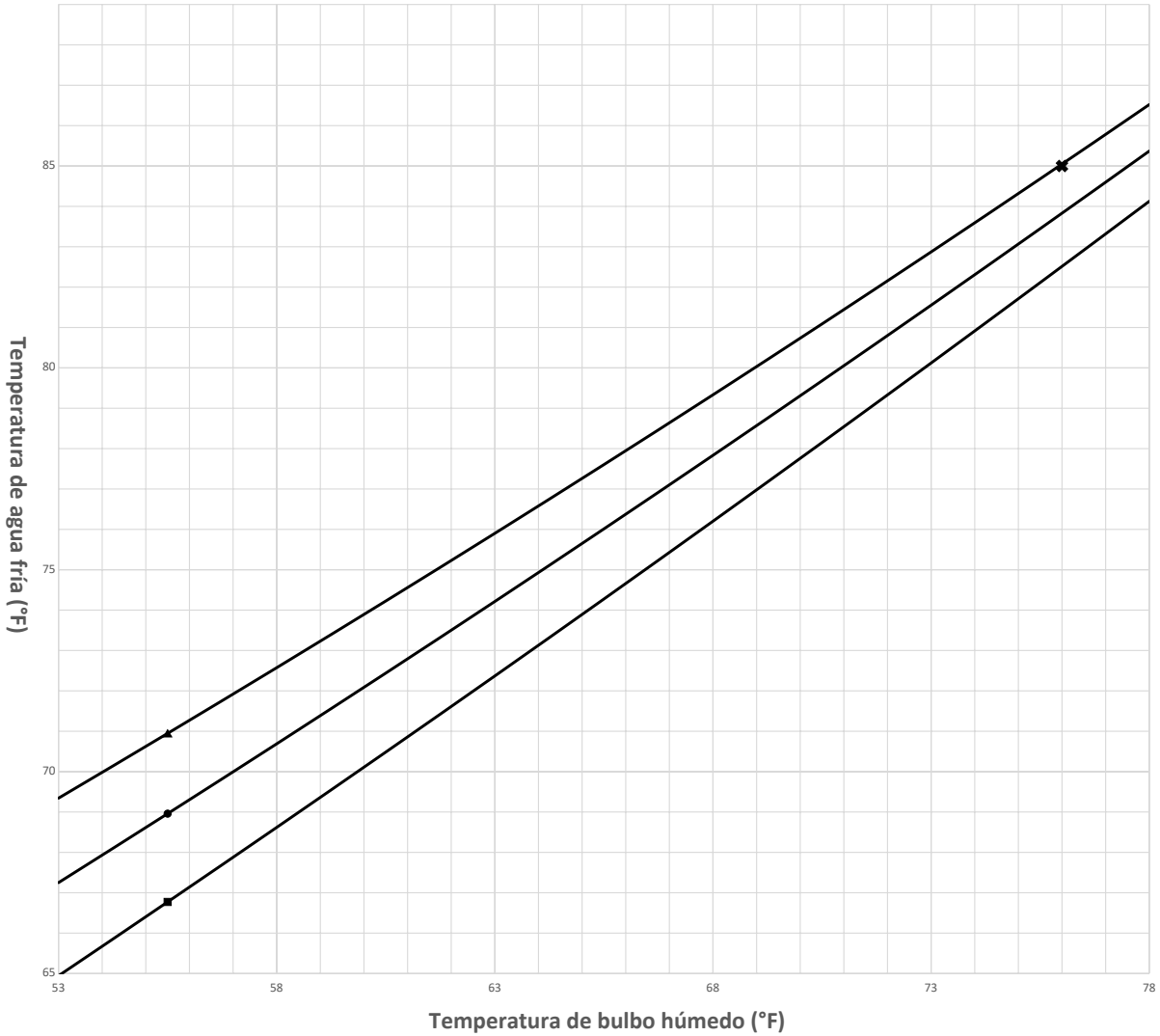
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Fabricante	Marley
Producto	NC Steel
Modelo	NC8407RLS1
Celdas	1
Ventilador	3.048 m, 5 Aspas , Silencioso
Ventiladores por celda	1
Capacidad de motor de ventilador por celda	25 HP



Condiciones de diseño

Flujo de agua de la torre	1875 gpm
Temperatura de agua caliente	95 °F
Temperatura de agua fría	85 °F
Temperatura de bulbo húmedo	76 °F

Condiciones de curva

Flujo de agua de la torre (90 %)	1687.5 gpm
Velocidad de ventilador (100 %)	230 rpm
Velocidad de motor de ventilador (100 %)	1200 rpm
Potencia del motor del ventilador por celda	25 BHP
Potencia total del motor del ventilador	25 BHP

Leyenda

■ 8 °F Rango
● 10 °F Rango
▲ 12 °F Rango
X Punto de diseño

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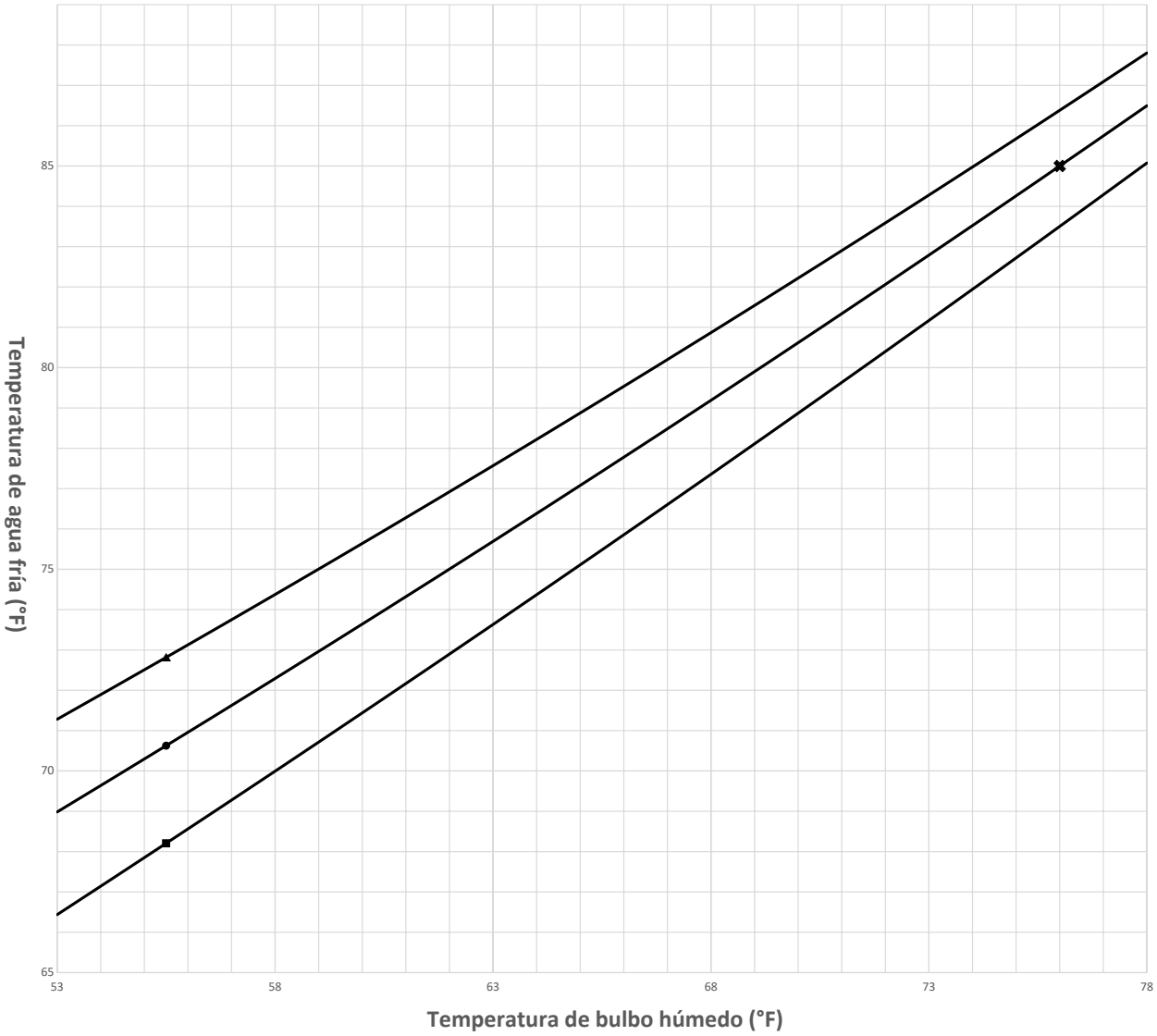
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Producto	NC Steel
Modelo	NC8407RLS1
Celdas	1
Ventilador	3.048 m, 5 Aspas , Silencioso
Ventiladores por celda	1
Capacidad de motor de ventilador por celda	25 HP



Condiciones de diseño

Flujo de agua de la torre	1875 gpm
Temperatura de agua caliente	95 °F
Temperatura de agua fría	85 °F
Temperatura de bulbo húmedo	76 °F

Condiciones de curva

Flujo de agua de la torre (100 %)	1875 gpm
Velocidad de ventilador (100 %)	230 rpm
Velocidad de motor de ventilador (100 %)	1200 rpm
Potencia del motor del ventilador por celda	25 BHP
Potencia total del motor del ventilador	25 BHP

Leyenda

■ 8 °F Rango
● 10 °F Rango
▲ 12 °F Rango
X Punto de diseño

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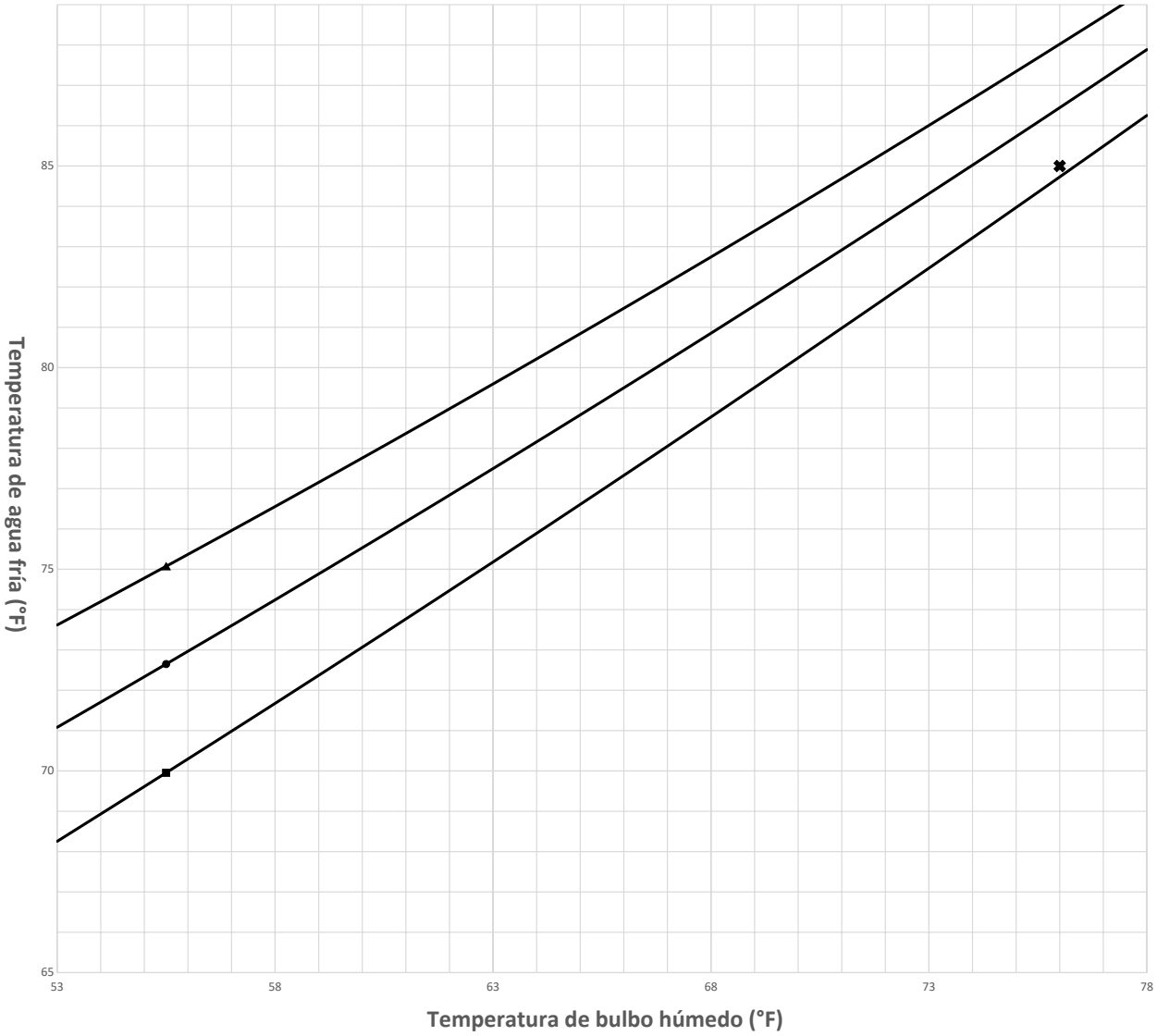
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Producto	NC Steel
Modelo	NC8407RLS1
Celdas	1
Ventilador	3.048 m, 5 Aspas , Silencioso
Ventiladores por celda	1
Capacidad de motor de ventilador por celda	25 HP



Condiciones de diseño

Flujo de agua de la torre	1875 gpm
Temperatura de agua caliente	95 °F
Temperatura de agua fría	85 °F
Temperatura de bulbo húmedo	76 °F

Condiciones de curva

Flujo de agua de la torre (110 %)	2062.5 gpm
Velocidad de ventilador (100 %)	230 rpm
Velocidad de motor de ventilador (100 %)	1200 rpm
Potencia del motor del ventilador por celda	25 BHP
Potencia total del motor del ventilador	25 BHP

Leyenda

■ 8 °F Rango
● 10 °F Rango
▲ 12 °F Rango
X Punto de diseño

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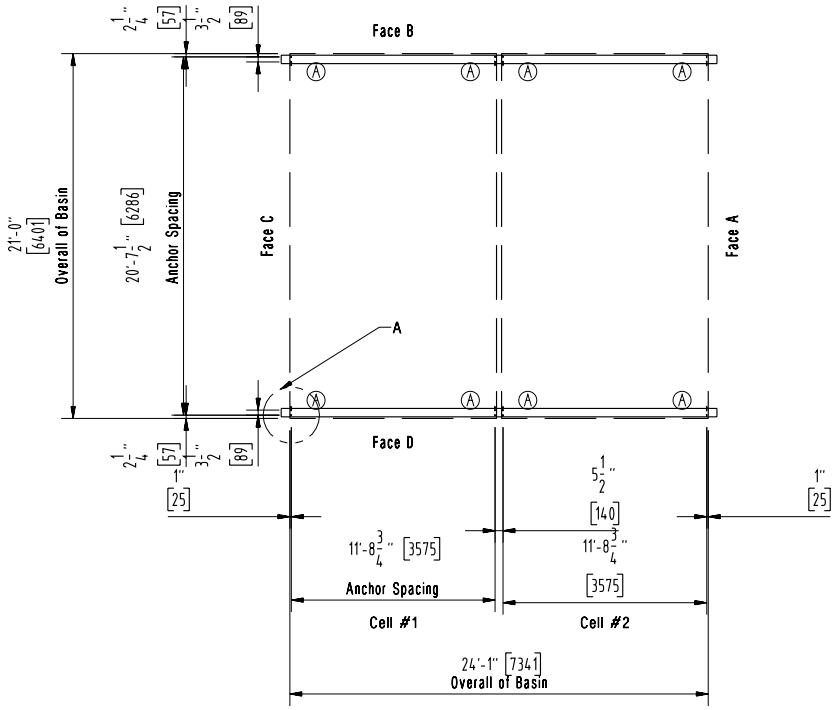
Definición de torre de enfriamiento

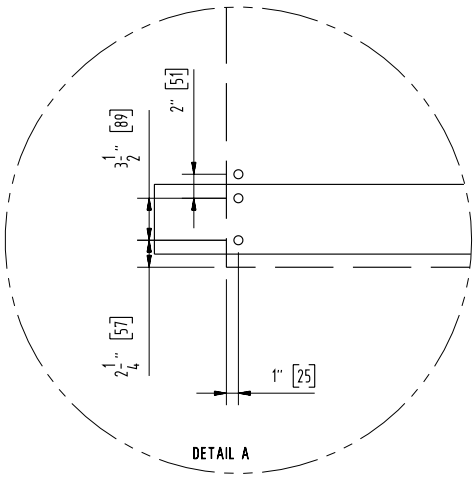
Fabricante	Marley	Flujo de agua de la torre	1875 gpm
Producto	NC Class	Elevación estática	3.761 m
Modelo	NC8407RLS1	Eficiencia de la bomba	70 %
Celdas	1	Rango de diseño	10 °F
Ventilador	3.048 m, 5 Aspas , Silencioso	Diseño de bulbo húmedo	76 °F
Ventiladores por celda	1	Punto fijo de agua fría	53.6 °F
Perfil de bulbo húmedo	Lineal	Bulbo húmedo promedio	50 °F
Potencia de motor de ventilador por celda	25 BHP	Rango en bulbo húmedo promedio	10 °F
Eficiencia de motor de ventilador	95 %	Bulbo húmedo máximo	87 °F

Información de intervalo					Ventilador de velocidad variable		Bomba
Bulbo húmedo Intervalo °F		Agua fría °F	Rango °F	Horas	Potencia total del motor del ventilador Salida BHP	kWh	kWh
13	15.85	53.6	10	332.3	12.94	3375	2070
15.85	18.69	53.6	10	332.3	12.94	3375	2070
18.69	21.54	53.6	10	332.3	13.03	3399	2070
21.54	24.38	53.6	10	332.3	15.58	4063	2070
24.38	27.23	53.6	10	332.3	18.95	4943	2070
27.23	30.08	53.6	10	332.3	23.53	6138	2070
30.08	32.92	54.91	10	332.3	25	6521	2070
32.92	35.77	56.69	10	332.3	25	6521	2070
35.77	38.62	58.46	10	332.3	25	6521	2070
38.62	41.46	60.24	10	332.3	25	6521	2070
41.46	44.31	62.03	10	332.3	25	6521	2070
44.31	47.15	63.84	10	332.3	25	6521	2070
47.15	50	65.67	10	332.3	25	6521	2070
50	52.85	53.6	10	332.3	25	6521	2070
52.85	55.69	53.6	10	332.3	25	6521	2070
55.69	58.54	53.6	10	332.3	25	6521	2070
58.54	61.38	53.6	10	332.3	25	6521	2070
61.38	64.23	53.6	10	332.3	25	6521	2070
64.23	67.08	53.6	10	332.3	25	6521	2070
67.08	69.92	53.6	10	332.3	25	6521	2070
69.92	72.77	53.6	10	332.3	25	6521	2070
72.77	75.62	53.6	10	332.3	25	6521	2070
75.62	78.46	53.6	10	332.3	25	6521	2070
78.46	81.31	53.6	10	332.3	25	6521	2070
81.31	84.15	53.6	10	332.3	25	6521	2070

Shipping Weight		Design Operating Loads			Wind Load		Seismic Load	
per Tower	per Cell	per Tower	per Cell	at A	Vert. Reaction at A	Horiz. Reaction at A	Vert. Reaction at A	Horiz. Reaction at A
24334 lb (11038 kg)	12167 lb (5519 kg)	51674 lb (23439 kg)	25837 lb (11719 kg)	7068 lb (3206 kg)	73.65 x P lb (6.84 x P kgf)	66.4 x P lb (6.17 x P kgf)	6055 x G lb (2747 x G kgf)	6687 x G lb (3033 x G kgf)

(8) 3/4" ASTM A307 or M20 Grade 4.6 anchor bolts are required per cell. These anchor bolts are capable of resisting 119 psf (5698 N/m²) wind load or 1.12 G seismic load applied to the tower. Wind and Seismic capacities are un-factored loads as determined by ASCE7-10/16/22. Determination of the site specific design wind and seismic loads are by others.





The first anchor bolt hole is the closest to the end of the cold water basin flange. The second anchor bolt should use the hole that matches the gauge of the beam.

NOTES

1. SUPPORTING STEEL: The supporting steel is to be designed, constructed and furnished by the customer. It shall include customer supplied anchor bolts to suit the general dimensions of this drawing and of the Outlet Piping Plan drawing. The top surface of the supporting steel must be framed flush and level. The maximum beam deflection shall be limited to 1/360 of span, not to exceed 1/2" (13 mm) at the anchor bolts in order to assure that the cooling tower is level and plumb.
2. DESIGN OPERATING LOADS: The design operating loads shown in the above table are based upon the volume of water in the collection basin at shutdown. The shutdown water level has been sized to accommodate the maximum allowable flow rates. The design loads are shown for your use as a quick reference. The actual operating load is variable, and dependent upon the design flow rate per cell. Design loads are all based upon the recommended operating water level. Operating levels in excess of that recommended will result in loads exceeding the values stated. Consult a SPX CT representative for greater detail on this or any other subject.
3. WIND & SEISMIC LOADS: Reactions shown are the result of the wind/seismic load being applied perpendicular to the face of the tower structure. Loads are additive to the operating loads. Wind reactions can be calculated by multiplying by P, which is the wind pressure in psf for Imperial units and kgf/m² for metric units. Seismic reactions can be calculated by design G.
4. SHIPPING WEIGHTS AND MAXIMUM OPERATING LOADS: Values shown in table include the optional equipment weights.
5. NON-STANDARD ANCHORAGE LOCATION: The anchor bolt dimension shown can be varied upon request. Consult a SPX CT representative for specifics and to ensure that the appropriate modifications are added to the structure.
6. PIER SUPPORTS: The tower may be supported from piers at each anchor bolt location as an alternate. A pier should be at least 6" (152 mm) x 6" (152 mm).
7. VIBRATION ISOLATORS: The towers may be supported on vibration isolators. The isolators must be placed UNDER the supporting steel beams and not between the support beams and the tower.
8. The tower assembly tolerance applicable to all dimensions is + or - 1/8" (3 mm). Consult suppliers of supporting structure for construction tolerances.
9. The units of measure are in IP (SI) units unless otherwise noted.

NC8407RLS2SGK - Supporting Steel Plan and Details
ASVN-031-26-MCT AINECOL
Cali, Colombia

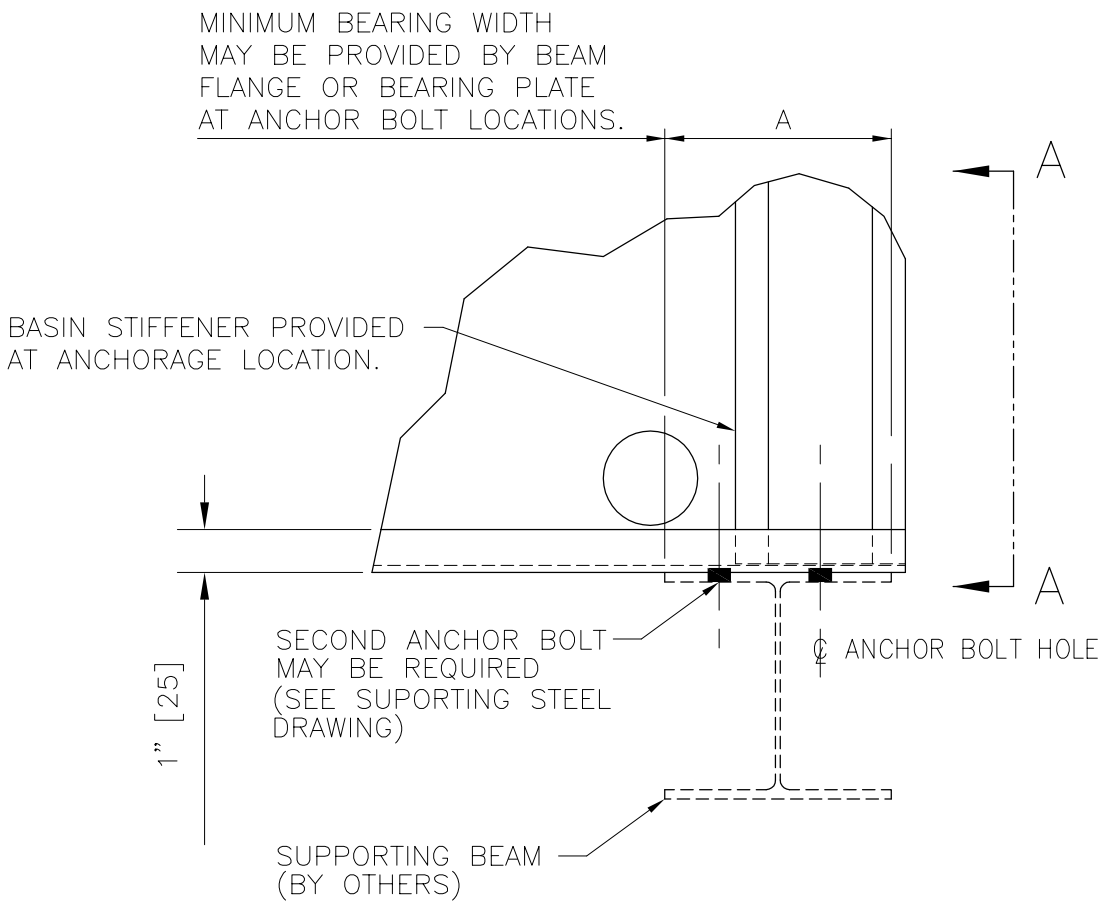
MARLEY

ORDER 0

DRAWN BY	CHECKED	REV BY	REV CHK	DATE	APPROVED	DRAWING NUMBER	REV.
HUGO TRIBIN_260317_132804306 V1	QTC			03/17/26	SYS	HT957270G	

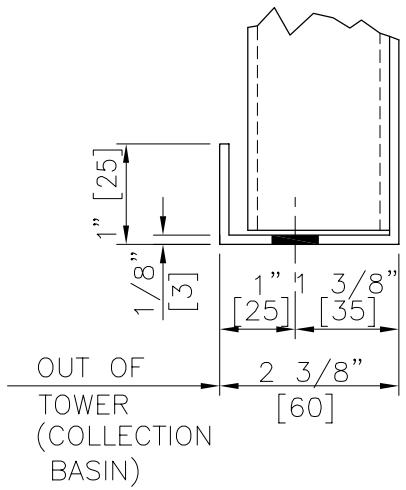
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TOWER MODEL	A
8401 THRU 8414	6" [152]
8422	8" [203]



SUPPORT BEARING DETAILS

(PARTIAL CASED FACE A OR C ELEVATION)



SECTION A–A

(LOUVER FACE B OR D)

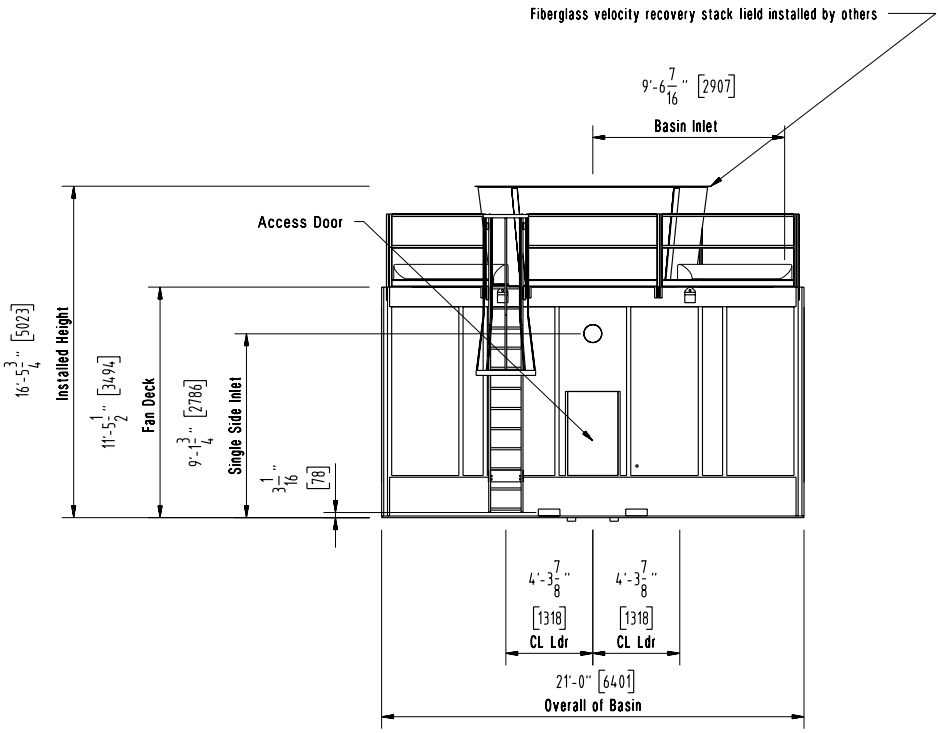
GENERAL NOTES

1. TOLERANCE APPLICABLE TO DIMENSIONS SHOWN ARE DEPENDENT UPON FABRICATION, ASSEMBLY AND CONSTRUCTION TOLERANCES. FABRICATION TOLERANCE IS ±1/16" [2] & ASSEMBLY TOLERANCE IS ±1/8" [3]. CONSULT SUPPLIERS OF SUPPORTING STRUCTURE FOR CONSTRUCTION TOLERANCE. ALL OF THE DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS SHOWN INSIDE OF BRACKETS[ ] ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

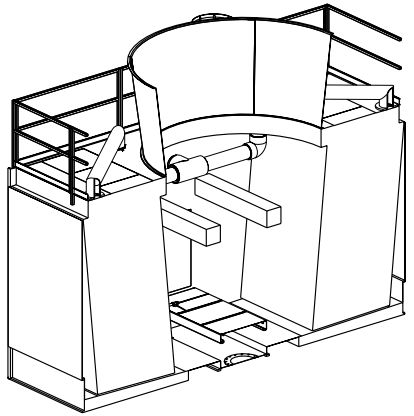
I–P [SI] UNITS

DRAWN BY	DRAWN DATE	SUPPORT BEARING DETAILS NC8401 THRU NC8422 TOWERS				MARLEY	
SCHENK_STD	07/20/2016						
CHECKED BY	CHECKED DATE						
RELEASED BY	RELEASED DATE	ECM NUMBER	ORDER NUMBER	FORMAT	PLOT	DRAWING NUMBER	REV.
JENKINS_STD	07/28/2016	21681	–/–	ANSI A	1=1	Z0628641	A

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Cased Face C



Interior View

NOTES

1. The fan motor must be locked out and inoperable before entering the tower. This warning has been placed on the access door.
2. The internal inlet piping, including flat face flange gaskets, which starts at the face of the inlet connection is provided by SPX CT. The piping external to the tower and its supports are provided by others. The external piping may not be supported from the tower.
3. The external inlet piping at the top of the tower is provided by SPX CT and installed in the field by others. This piping can be an obstacle to personnel on top of the tower. The installation detail drawings are included in the Literature Package shipped with the tower.
4. Multi-cell towers should include provisions to balance flow between cells.
5. An incoming riser and manifold must allow clearance for entry to the tower access doors. 4'-2" (1270 mm) is the minimum clearance needed to clear the optional access door or motor access platform.
6. To ensure maximum thermal performance the cooling tower must be installed level and plumb. Both of the air inlet faces must have adequate air supply. If obstructions exist, consult your SPX CT representative.
7. Contact your SPX CT sales engineer for the required pump head for this inlet arrangement.
8. Hoisting clips are provided for ease of unloading and positioning. For overhead lifts or where additional safety precautions are prudent, add slings beneath the tower. Adequate space has been provided for removal of the shackles and the 5 1/4" (133 mm) long pins from the hoist clips between the cells of a multi-cell tower. If the pin used is longer than 5 1/4" (133 mm), the cell may be slid into it's final position by using come-alongs at the base of the unit, after removal of shackle pins. See Hoisting Details drawing.
9. Flanged connections conform to Class 125 ANSI B16.1 specification. The bolt holes straddle the centerlines.
10. Construction of the ladder and guardrail: The guardrail is fabricated from galvanized structural tubing. Top rail, middle rail and posts are 1 1/2" (38 mm) square tube 1/8" (3 mm) thick. Toeboards are 12 gauge heavy mill galvanized steel. The ladder is aluminum 3" (76 mm) x 1 1/8" (29 mm) I-beam side rails and 1 1/4" (32 mm) serrated rungs.
11. The ladder and guardrail are field installed by others. The tower is shop modified to accept this option. The clips and hardware are provided by SPX CT for the field installation. The installation detail drawings are included in the literature package shipped with the tower.
12. The Plenum Walkway consists of 11 gauge steel supports and 16 gauge steel walkway panels. The elevation of the Plenum Walkway is above the overflow water level of the collection basin. The distance from the top of the Plenum Walkway to the fan is 8'-1 11/16" (2481 mm).
13. Single inlet options (side or bottom inlet) - This piping can be an obstacle to personnel on top of the tower.
14. The tower assembly tolerance applicable to all dimensions is + or - 1/8" (3 mm). Consult suppliers of supporting structure for construction tolerances.
15. The units of measure are in IP (SI) units unless otherwise noted.

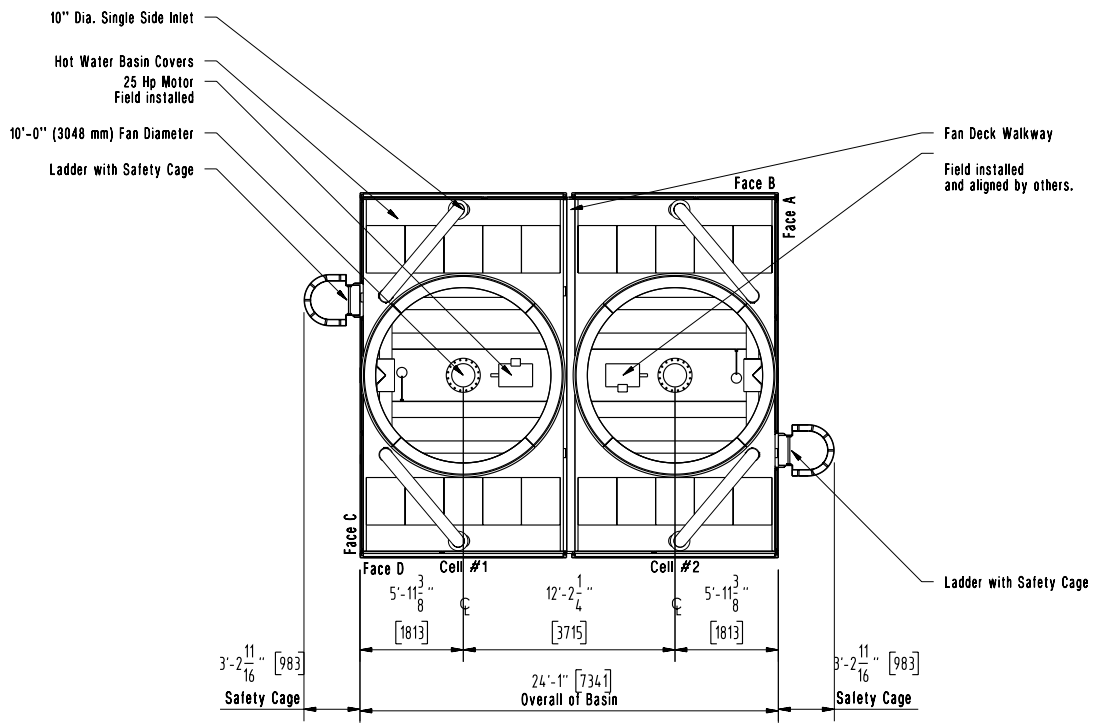
NC8407RLS2SGK - Schematic Cased Elevation and Notes
ASVN-031-26-MCT AINECOL
Cali, Colombia

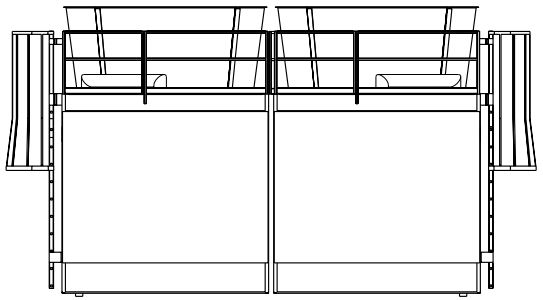
MARLEY

ORDER 0

DRAWN BY	CHECKED	REV BY	REV CHK	DATE	APPROVED	DRAWING NUMBER	REV.
HUGO TRIBIN_260317_132804306 V1	QTC			03/17/26	SYS	HT957270M	

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NOTES

1. The tower assembly tolerance applicable to all dimensions is + or - 1/8" (3 mm). Consult suppliers of supporting structure for construction tolerances.
2. The units of measure are in IP (SI) units unless otherwise noted.
3. See Schematic Cased Elevation and Notes drawing for additional notes.

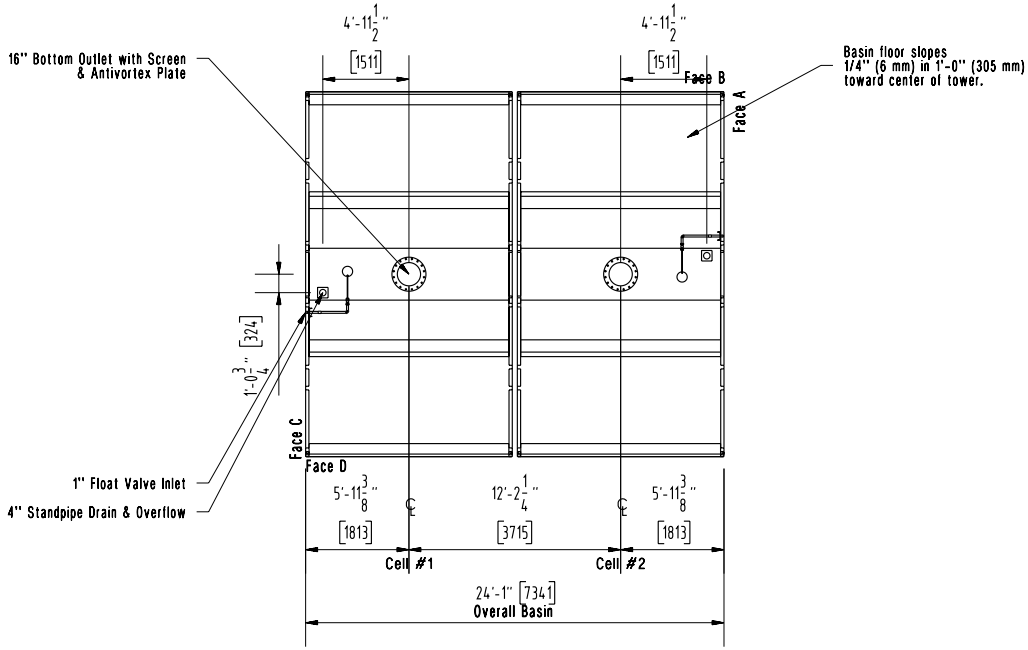
NC8407RLS2SGK - Schematic Plan and Louver Elevation
ASVN-031-26-MCT AINECOL
Cali, Colombia

MARLEY

ORDER 0

DRAWN BY	CHECKED	REV BY	REV CHK	DATE	APPROVED	DRAWING NUMBER	REV.
HUGO TRIBIN_260317_132804306 V1	QTC			03/17/26	SYS	HT957270S	

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Plan View of Basin

NOTES

1. All piping supports are by others. Do NOT support outlet piping from the tower.
2. The collection basin piping accessories shown on this drawing are furnished by SPX CT. This includes a full faced gasket. Flat faced flange, fasteners and seal washers attachment to the outlet are supplied by others. The use of a flange other than a flat faced flange will damage the collection basin floor.
3. The diameter of the bottom outlet equalizer option is based on a SPX CT standard using 20 percent of a tower's outlet design flow and a head differential between two adjacent towers of 1" (25 mm).
4. The standpipe overflow is to be field installed by others.
5. The design operating loads shown in the table on the Grillage Details drawing are based upon the volume of water in the collection basin at shutdown. The shutdown water level has been sized to accommodate the maximum allowable flow rates. The actual operating load is variable, and is dependent upon the design flow rate per cell. Design loads are all based upon the recommended operating water level. Operating levels in excess of that recommended can result in loads exceeding values stated. Consult a SPX CT representative for greater detail on this or any other subject.
6. The tower assembly tolerance applicable to all dimensions is + or - 1/8" (3 mm). Consult suppliers of supporting structure for construction tolerances.
7. The units of measure are in IP (SI) units unless otherwise noted.

NC8407RLS2SGK - Piping Plan
ASVN-031-26-MCT AINECOL
Cali, Colombia

MARLEY

ORDER 0

DRAWN BY	CHECKED	REV BY	REV CHK	DATE	APPROVED	DRAWING NUMBER	REV.
HUGO TRIBIN_260317_132804306 V1	QTC			03/17/26	SYS	HT957270P	

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COOLING TECHNOLOGY INSTITUTE
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SPX Cooling Tech LLC (Marley)
NC Class of CTI Certified Cooling Towers
CTI Certification Validation Number C14A-92R23
March 31, 2025 (Revision 23)

Product Line -- Box Size	Power Designators Available With Sound Designator A	Power Designators Available with Low Sound Designators L, K, M, N, P, Q, R, S, T	Power Designators Available with Ultra Low Sound Designators C, D, U, V	Stack Type & Extra Drift Eliminator Designators
NC8401	H, K, M, N, P	G, H, K, M, N, P	- -	N, P
NC8402	H, K, M, N, P, Q	G, H, K, M, N, P, Q	G, H, K, M, N, P, Q	N, P, S, T
NC8403	H, K, M, N, P, Q, R, S, T	H, K, M, N, P, Q, R, S, T	H, K, M, N, P, Q, R, S	N, P, S, T
NC8405	H, K, M, N, P, Q, R, S, T, U	H, K, M, N, P, Q, R, S, T, U	H, K, M, N, P, Q, R, S, T, U	N, P, S, T
NC8407	K, M, N, P, Q, R, S, T, U, V	K, M, N, P, Q, R, S, T, U, V	K, M, N, P, Q, R, S, T, U, V	N, P, S, T
NC8409	M, N, P, Q, R, S, T, U, V, W	M, N, P, Q, R, S, T, U, V, W	M, N, P, Q, R, S, T, U, V, W	N, P, S, T
NC8410	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, S, T
NC8411	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, S, T
NC8412	P, Q, R, S, T, U, V, W, X	P, Q, R, S, T, U, V, W, X	P, Q, R, S, T, U, V, W, X	N, P, S, T
NC8413	N, P, Q, R, S, T, U, V, W, X	N, P, Q, R, S, T, U, V, W, X	Q, R, S, T, U, V, W, X	N, P, S, T
NC8414	P, Q, R, S, T, U, V, W, X, Y	P, Q, R, S, T, U, V, W, X, Y	Q, R, S, T, U, V, W, X	N, P, S, T
NC8422[5]	R,S,T,U,V,W,X,Y,Z	R,S,T,U,V,W,X,Y,Z	R,S,T,U,V,W,X,Y,Z	N,P

Fan & Noise Configuration Designators (See Note 1)	Sound Designator	S & T Stack Compatibility
Standard Fan No Attenuation	A	Yes
Low Sound Fan No Attenuation	L	Yes
Low Sound Fan w/ 2 ft. Inlet Attenuation	K	Yes
Low Sound Fan w/ 4 ft. Inlet Attenuation	M	Yes
Low Sound Fan w/ 2 ft. Outlet Attenuation	N	No
Low Sound Fan w/ 4 ft. Outlet Attenuation	P	No
Low Sound Fan w/ 2 ft. Inlet & 2 ft. Outlet attenuation	Q	No
Low Sound Fan w/ 4 ft. Inlet & 2 ft. Outlet attenuation	R	No
Low Sound Fan w/ 2 ft. Inlet & 4 ft. Outlet attenuation	S	No
Low Sound Fan with 4 ft. Inlet & 4 ft. Outlet attenuation	T	No
Ultra Low Sound Fan No Attenuation	C	No
Ultra Low Sound Fan w/ 2 ft. Inlet Attenuation	U	No
Ultra Low Sound Fan w/ 4 ft. Inlet Attenuation	V	No
Alternate Ultra Low Sound Fan No Attenuation	D	No
Alternate Ultra Low Sound Fan w/ 2 ft. Inlet Attenuation	W	No
Alternate Ultra Low Sound Fan w/ 4 ft. Inlet Attenuation	X	No
Stack & Drift Eliminator Type Designators (See Note 2)	N = Standard Stack	
	P = Standard Stack & Extra Drift Eliminator	
	S = Velocity Recovery Stack	
	T = Velocity Recovery Stack & Extra Drift Eliminator	

Footnotes:

1	Some model configurations are not available and capacity adjustments are required for many nonstandard model configurations. See selection software at www.spxcooling.com for configuration availability and specific capacity of each available configuration.	
2	Capacity with stack & drift eliminator type designator P or T is 4% less than respective N or S capacity.	
3	Multi-cell configurations are end-wall to end-wall arrangements of the single cell designs which do not impact airflow rate or the capacity of the individual cells and are certified.	
4	Direct Drive fan system, in lieu of geareducers or belt/sheaves, have 1.3% increase in capacity relative to the base unit. Designated by a "D" as the 'mechanical designator', second character after cell quantity.	
5	Models may be classified with the "NC Everest" marketing alias	
6	Sample Model Number: NC8405DMN2 where	NC8405 = Box Size
		D = Motor Power Designator
		M = Fan & Noise Designator
		N = Stack & Drift Eliminator Designator
		2 = Number of Cells

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SPX Cooling Tech LLC (Marley)
NC Class of CTI Sound Certified Cooling Towers
CTI Sound Certification Validation Number S14A-26R00
January 19, 2026 (Revision 0)

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NC8402	H, K, M, N, P, Q	G, H, K, M, N, P, Q	G, H, K, M, N, P, Q	N, P, S, T
NC8403	H, K, M, N, P, Q, R, S, T	H, K, M, N, P, Q, R, S, T	H, K, M, N, P, Q, R, S	N, P, S, T
NC8405	H, K, M, N, P, Q, R, S, T, U	H, K, M, N, P, Q, R, S, T, U	H, K, M, N, P, Q, R, S, T, U	N, P, S, T
NC8407	K, M, N, P, Q, R, S, T, U, V	K, M, N, P, Q, R, S, T, U, V	K, M, N, P, Q, R, S, T, U, V	N, P, S, T
NC8409	M, N, P, Q, R, S, T, U, V, W	M, N, P, Q, R, S, T, U, V, W	M, N, P, Q, R, S, T, U, V, W	N, P, S, T
NC8410	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, S, T
NC8411	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, Q, R, S, T, U, V, W	N, P, S, T
NC8412	P, Q, R, S, T, U, V, W, X	P, Q, R, S, T, U, V, W, X	P, Q, R, S, T, U, V, W, X	N, P, S, T
NC8413	N, P, Q, R, S, T, U, V, W, X	N, P, Q, R, S, T, U, V, W, X	Q, R, S, T, U, V, W, X	N, P, S, T
NC8414	P, Q, R, S, T, U, V, W, X, Y	P, Q, R, S, T, U, V, W, X, Y	Q, R, S, T, U, V, W, X	N, P, S, T
NC8422[5]	R,S,T,U,V,W,X,Y,Z	R,S,T,U,V,W,X,Y,Z	R,S,T,U,V,W,X,Y,Z	N,P

Fan & Noise Configuration Designators (See Note 1)	Sound Designator
Standard Fan No Attenuation	A
Low Sound Fan No Attenuation	L
Low Sound Fan w/ 2 ft. Inlet Attenuation	K
Low Sound Fan w/ 4 ft. Inlet Attenuation	M
Low Sound Fan w/ 2 ft. Outlet Attenuation	N
Low Sound Fan w/ 4 ft. Outlet Attenuation	P
Low Sound Fan w/ 2 ft. Inlet & 2 ft. Outlet attenuation	Q
Low Sound Fan w/ 4 ft. Inlet & 2 ft. Outlet attenuation	R
Low Sound Fan w/ 2 ft. Inlet & 4 ft. Outlet attenuation	S
Low Sound Fan with 4 ft. Inlet & 4 ft. Outlet attenuation	T
Ultra Low Sound Fan No Attenuation	C
Ultra Low Sound Fan w/ 2 ft. Inlet Attenuation	U
Ultra Low Sound Fan w/ 4 ft. Inlet Attenuation	V
Alternate Ultra Low Sound Fan No Attenuation	D
Alternate Ultra Low Sound Fan w/ 2 ft. Inlet Attenuation	W
Alternate Ultra Low Sound Fan w/ 4 ft. Inlet Attenuation	X
Stack & Drift Eliminator Type Designators (See Note 2)	N = Standard Stack
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Footnotes:		
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2	Capacity with stack & drift eliminator type designator P or T is 4% less than respective N or S capacity.	
3	Multiple cell models of the single cell models above are also available.	
4	Direct Drive fan system, in lieu of geareducers or belt/sheaves, have 1.3% increase in capacity relative to the base unit. Designated by a "D" as the 'mechanical designator', second character after cell quantity.	
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